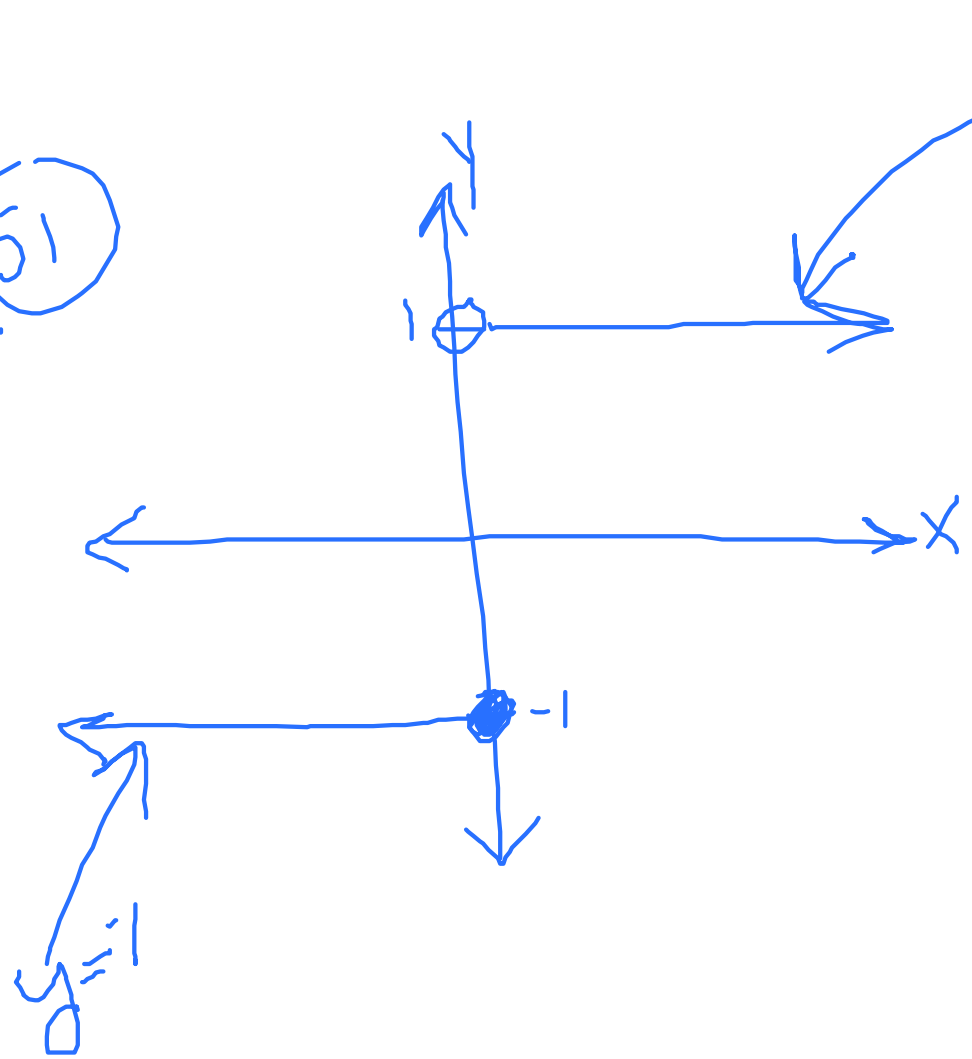
Unit 12
Day 5
Basic Functions
Section 3.5 from textbook

(51)



$$f(x) = \begin{cases} -1 & x \leq 0 \\ 1 & x > 0 \end{cases}$$

(52) $f(x) = \begin{cases} 1 & x < 0 \\ 0 & x = 0 \\ 1 & x > 0 \end{cases}$

GREATEST INTEGER FUNCTION

The greatest integer function, $f(x) = [\![x]\!]$, pairs every real number x with the greatest integer that is less than or equal to x.

Examples:

$[\![8.4]\!] = 8$

$[\![8.9]\!] = 8$

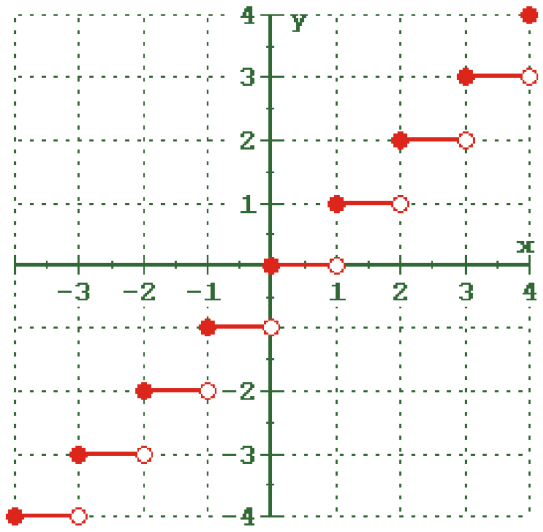
$[\![\pi]\!] = 3$

$[\![-5]\!] = -5$

$[\![-1.2]\!] = -2$

$[\![-6.9]\!] = -7$

The graph of the greatest integer function looks like this:



Complete Basic Graphs Worksheets at seats.

Link to grapher.app for

Library of Functions

If time do a table of value problem from p 231

HOMEWORK:

Complete worksheets from class
p. 230-231: 7-14 (all)
16-30 (e) use a table of values